EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S47	12	S45 and (map$3 near8 table)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:11
S45	26	S44 and @pd<"20031126"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:10
S44	63	S42 and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:06
S43	37372	S38 or S39 or S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:06
S42	150	S41 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:06
S33	17	S32 and @pd<"20031126"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:06
S41	586	(signature or hash$3) with S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:05
S10	5923	(signature or hash)near8 file	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 19:05

EAST Search History

S40	1147	(711/147).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/07 19:03
S39	11335	(709/217,224,225).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/07 18:59
S38	25981	(707/1-3,10,100,102,200).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/07 18:59
S36	17	S33 and access	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:58
S35	3	S33 and hash$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:32
S34	0	S33 and signature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:32
S32	31	S31 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:23
S31	41	file with map$3 with S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:23

EAST Search History

S30	80843	"storage space"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:22
S29	40070	"file system"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/07 18:22
S28	2	("6389538").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/04 19:01
S27	2	("6522268").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/04 18:56

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1   Fast detection of communication patterns in distributed executions   ◼
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

> Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2   Hancock: A language for analyzing transactional data streams   ◼
◈ Corinna Cortes, Kathleen Fisher, Daryl Pregibon, Anne Rogers, Frederick Smith
March 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS),**
Volume 26 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(217.55 KB)   Additional Information: full citation, abstract, references, index terms

> Massive transaction streams present a number of opportunities for data mining techniques. The transactions in such streams might represent calls on a telephone network, commercial credit card purchases, stock market trades, or HTTP requests to a web server. While historically such data have been collected for billing or security purposes, they are now being used to discover how the transactors, for example, credit-card numbers or IP addresses, use the associated services.Over the past 5 years, w ...

> **Keywords**: Domain-specific languages, data mining, statistical models

3   File and storage systems: Decentralized user authentication in a global file system   ◼
◈ Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Publisher: ACM Press
Full text available: 📄 pdf(144.43 KB)   Additional Information: full citation, abstract, references, index terms

> The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through

a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

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4 Shape-based retrieval and analysis of 3D models .
Thomas Funkhouser, Michael Kazhdan
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes
        SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(12.56 MB)   Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

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5 Client-server computing in mobile environments
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                    terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

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6 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB)
                        html(2.78 KB)   Additional Information: full citation, references, citings, index terms

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7 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes
        SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB)   Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

8 Extending document management systems with user-specific active properties

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(166.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

9 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(7.24 MB)   Additional Information: full citation, citings

10 Improved proxy re-encryption schemes with applications to secure distributed storage

Giuseppe Ateniese, Kevin Fu, Matthew Green, Susan Hohenberger

February 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: pdf(331.59 KB)   Additional Information: full citation, abstract, references, index terms

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed an application called *atomic proxy re-encryption*, in which a semitrusted proxy converts a ciphertext for Alice into a ciphertext for Bob *without* seeing the underlying plaintext. We predict that fast and secure re-encryption will become increasingly popular as a method for managing encrypted file systems. Although efficiently computable, the wide-spread adoption of BBS re-encryption has been hindered by considerable security risks. ...

Keywords: Proxy re-encryption, bilinear maps, double decryption, key translation

11 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.39 MB)   Additional Information: full citation, references, citings, index terms

12 Special issue on persistent object systems: Tigukat: a uniform behavioral objectbase

management system

M. Tamer Özsu, Randal Peters, Duane Szafron, Boman Irani, Anna Lipka, Adriana Muñoz
July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 4 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(2.78 MB)   Additional Information: full citation, abstract, references, citings

We describe the TIGUKAT objectbase management system, which is under development
at the Laboratory for Database Systems Research at the University of Alberta. TIGUKAT
has a novel object model, whose identifying characteristics include a purely behavioral
semantics and a uniform approach to objects. Everything in the system, including types,
classes, collections, behaviors, and functions, as well as meta-information, is a first-class
object with well-defined behavior. In this way, the model abstr ...

Keywords: database management, objectbase management, persistent storage system,
reflective system

13 Decentralizing a global naming service for improved performance and fault tolerance

D. R. Cheriton, T. P. Mann
May 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(3.19 MB)   Additional Information: full citation, abstract, references, citings, index
terms, review

Naming is an important aspect of distributed system design. A naming system allows
users and programs to assign character-string names to objects, and subsequently use
the names to refer to those objects. With the interconnection of clusters of computers by
wide-area networks and internetworks, the domain over which naming systems must
function is growing to encompass the entire world. In this paper we address the problem
of a global naming system, proposing a three-level naming ...

14 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(9.17 MB)   Additional Information: full citation, references, citings, index terms

15 Improving the granularity of access control for Windows 2000

Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon
Chan, Mario Goertzel, Gregory Jensenworth
November 2002 **ACM Transactions on Information and System Security (TISSEC)**,
Volume 5 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(447.78 KB)   Additional Information: full citation, abstract, references, citings, index
terms, review

This article presents the mechanisms in Windows 2000 that enable fine-grained and
centrally managed access control for both operating system components and applications.
These features were added during the transition from Windows NT 4.0 to support the
Active Directory, a new feature in Windows 2000, and to protect computers connected to
the Internet. While the access control mechanisms in Windows NT are suitable for file
systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

16 Network Protocols

Andrew S. Tanenbaum

December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4
Publisher: ACM Press
Full text available: pdf(3.37 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17 <u>Special system-oriented section: the best of SIGMOD '94: Sleepers and workaholics: caching strategies in mobile environments (extended version)</u>
Daniel Barbará, Tomasz Imieliński
October 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(1.73 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

> In the mobile wireless computing environment of the future, a large number of users, equipped with low-powered palmtop machines, will query databases over wireless communication channels. Palmtop-based units will often be disconnected for prolonged periods of time, due to battery power saving measures; palmtops also will frequently relocate between different cells, and will connect to different data servers at different times. Caching of frequently accessed data items will be an important techni ...

> **Keywords**: caching, data management, information services, wireless

18 <u>Controlling access in multiuser interfaces</u>
Prasun Dewan, Honghai Shen
March 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 1
Publisher: ACM Press
Full text available: pdf(182.07 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

> Traditionally, access control has been studied in the areas of operating systems and database management systems. With the advent of multiuser interfaces, there is a need to provide access control in the user interface. We have developed a general framework for supporting access control in multiuser interfaces. It is based on the classical notion of an access matrix, a generalized editing-based model of user-application interaction, and a flexible model of user-user coupling. It has been de ...

> **Keywords**: access control, collaboration, computer-supported cooperative work, groupware, privacy, security, structure editors, user interface management systems

19 <u>Knowledge-based document retrieval in office environments: the Kabiria system</u>
Augusto Celentano, Maria Grazia Fugini, Silvano Pozzi
July 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 3
Publisher: ACM Press
Full text available: pdf(2.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

> In the office environment, the retrieval of documents is performed using the concepts contained in the documents, information about the procedural context where the documents are used, and information about the regulations and laws that discipline the life of documents within a given application domain. To fulfill the requirements of such a sophisticated retrieval, we propose a document retrieval model and system based on the representation of knowledge describing the semantic contents of d ...

> **Keywords**: browser, class, hypertext, instance, knowledge base, link, object orientation, user interface

20 The O2 system

O. Deux

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Publisher: ACM Press

Full text available: pdf(7.18 MB)   Additional Information: full citation, references, citings, index terms

Keywords: O2, Object-oriented database systems

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1 Bit-sequences: an adaptive cache invalidation method in mobile client/server environments
Jin Jing, Ahmed Elmagarmid, Abdelsalam Sumi Helal, Rafael Alonso
October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: 🗎 pdf(454.04 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

In this paper, we present Bit-Sequences (BS), an adaptive cache invalidation algorithm for client/server mobile environments. The algorithm uses adaptable mechanisms to adjust the size of the invalidation report to optimize the use of a limited communication bandwidth while retaining the effectiveness of cache invalidation. The proposed BS algorithm is especially suited for dissemination-based (or "server-push"-based) nomadic information service applications. The critical aspect ...

2 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available: 🗎 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Flexible control of downloaded executable content
Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam
May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2
Publisher: ACM Press

Full text available: 🗎 pdf(297.79 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

4 Authentication in the Taos operating system
Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5
Publisher: ACM Press

Full text available: pdf(1.45 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We describe a design and implementation of security for a distributed system. In our system, applications access security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to support a substantia ...

5 Authentication in the Taos operating system
Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1
Publisher: ACM Press

Full text available: pdf(1.88 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

We describe a design for security in a distributed system and its implementation. In our design, applications gain access to security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to sup ...

Keywords: cryptography, mathematical logic

6 Query Optimization: How foreign function integration conquers heterogeneous query processing
Klaudia Hergula, Theo Härder
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(1.48 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

With the emergence of application systems which encapsulate databases and related application components, pure data integration using, for example, a federated database system is not possible anymore. Instead, access via predefined functions is the only way to get data from an application system. As a result, retrieval of such heterogeneous and encapsulated data sources needs the combination of generic query as well as predefined function access. In this paper, we present a middleware approach s ...

Keywords: cost model, federated database system, function integration, heterogeneous query processing, workflow management system, wrapper

7 Hash-based labeling techniques for storage scaling
D. Yao, Cyrus Shahabi, Per-Åke Larson
April 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(256.01 KB)　　Additional Information: <u>full citation</u>, <u>abstract</u>

Scalable storage architectures allow for the addition or removal of storage devices to increase storage capacity and bandwidth or retire older devices. Assuming random placement of data objects across multiple storage devices of a storage pool, our optimization objective is to redistribute a minimum number of objects after scaling the pool. In addition, a uniform distribution, and hence a balanced load, should be ensured after redistribution. Moreover, the redistributed objects should be retriev ...

Keywords: Load balancing, Random data placement, Scalable storage systems

8 **An analysis of XML database solutions for the management of MPEG-7 media descriptions**
Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press

Full text available: pdf(448.76 KB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

9 **Level set and PDE methods for computer graphics**
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press

Full text available: pdf(17.07 MB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

10 **A model of OASIS role-based access control and its support for active security**
Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4
Publisher: ACM Press

Full text available: pdf(352.06 KB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

11 SilkRoute: A framework for publishing relational data in XML

Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan

December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(687.91 KB)   Additional Information: full citation, abstract, references, citings, index terms

XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we describe SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational data is published in three steps: the relational tables are presented to the database administrator in a canonical XML view; the database administrator defines in the XQuery query language a public, virtual XML view over the canonical XML view; and an application formulates an XQuery query over the publ ...

Keywords: XML, XML storage systems, XQuery

12 Extending support for contracts in ebXML

James Cole, Zoran Milosevic

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

Publisher: IEEE Computer Society , IEEE Computer Society , IEEE Computer Society Press

Full text available: pdf(947.74 KB)
Publisher Site   Additional Information: full citation, abstract, references, citings

This paper describes our proposal for extending the current ebXML standard - to provide more comprehensive support for electronic contracts. The paper first presents the current status of major B2B initiatives, focusing on their support for electronic contracts. Having found the ebXML meta-model to provide a suitable contractual foundation, we examine the full extent of the requirements for supporting electronic contracts, and propose extensions to the ebXML meta-model to facilitate these requir ...

13 Adaptation in middleware: Dynamic adapter generation for data integration middleware

Peng Gong, Ian Gorton, David Dagan Feng

September 2005 **Proceedings of the 5th international workshop on Software engineering and middleware SEM '05**

Publisher: ACM Press

Full text available: pdf(584.94 KB)   Additional Information: full citation, abstract, references

Relatively mature integration technologies are available that make application integration tractable from an engineering perspective. However, integrating multiple heterogeneous data sources into applications is still a time-consuming, costly and error-prone engineering task, because existing integration technologies are based on static integration architectures. Such architectures tightly couple a data source to the data integration infrastructure. This paper describes the architecture and evol ...

Keywords: data source integration, dynamic adaptor, middleware

14 Stateful distributed interposition

John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(833.84 KB)   Additional Information: full citation, abstract, references, index terms

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

15 Cryptography as an operating system service: A case study

Angelos D. Keromytis, Jason L. Wright, Theo De Raadt, Matthew Burnside
February 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(669.12 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Cryptographic transformations are a fundamental building block in many security applications and protocols. To improve performance, several vendors market hardware accelerator cards. However, until now no operating system provided a mechanism that allowed both uniform and efficient use of this new type of resource.We present the OpenBSD Cryptographic Framework (OCF), a service virtualization layer implemented inside the operating system kernel, that provides uniform access to accelerator functio ...

Keywords: Encryption, authentication, cryptographic protocols, digital signatures, hash functions

16 LegionFS: a secure and scalable file system supporting cross-domain high-performance applications

Brian S. White, Michael Walker, Marty Humphrey, Andrew S. Grimshaw
November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: ACM Press

Full text available: pdf(499.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Realizing that current file systems can not cope with the diverse requirements of wide-area collaborations, researchers have developed data access facilities to meet their needs. Recent work has focused on comprehensive data access architectures. In order to fulfill the evolving requirements in this environment, we suggest a more fully-integrated architecture built upon the fundamental tenets of naming, security, scalability, extensibility, and adaptability. These form the underpinning of the Le ...

17 Network processor architecture: Overcoming the memory wall in packet processing: hammers or ladders?

Jayaram Mudigonda, Harrick M. Vin, Raj Yavatkar
October 2005 **Proceedings of the 2005 symposium on Architecture for networking and communications systems ANCS '05**
Publisher: ACM Press
Full text available: pdf(207.39 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Overhead of memory accesses limits the performance of packet processing applications. To overcome this bottleneck, today's network processors can utilize a wide-range of mechanisms-such as multi-level memory hierarchy, wide-word accesses, special-purpose result-caches, asynchronous memory, and hardware multi-threading. However, supporting all of these mechanisms complicates programmability and hardware design, and wastes systemresources. In this paper, we address the following fundamental questi ...

Keywords: data-caches, multithreading, network processors

18 Locality and visualisation: Decomposing memory performance: data structures and phases

Kartik K. Agaram, Stephen W. Keckler, Calvin Lin, Kathryn S. McKinley

June 2006 **Proceedings of the 2006 international symposium on Memory management ISMM '06**

Publisher: ACM Press

Full text available: pdf(409.96 KB)   Additional Information: full citation, abstract, references, index terms

The memory hierarchy continues to have a substantial effect on application performance. This paper explores the potential of high-level application understanding in improving the performance of modern memory hierarchies, decomposing the often-chaotic address stream of an application into multiple more regular streams. We present two orthogonal methodologies. The first is a system called DTrack that decomposes the dynamic reference stream of a C program by tagging each reference with its global v ...

Keywords: CPU2000, DTrack, SPEC, data structure, phase, simulation

19 A framework for implementing role-based access control using CORBA security service

Konstantin Beznosov, Yi Deng

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(1.21 MB)   Additional Information: full citation, references, citings, index terms

20 Develop once deploy anywhere achieving adaptivity with a runtime linker/loader framework

Joy Mukherjee, Srinidhi Varadarajan

November 2005 **Proceedings of the 4th workshop on Reflective and adaptive middleware systems ARM '05**

Publisher: ACM Press

Full text available: pdf(267.74 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents Load and Let Link -- a framework for flexible runtime loading and linking of procedural native code components. LLL has several novel aspects. First, it provides componentization without requiring an object-oriented language. Second, LLL performs linking at runtime, providing arbitrary code expansion, contraction and substitution. This enables (a) adaptive applications that can rewire themselves in response to dynamic conditions, (b) code patching for mission critical systems ...

Keywords: adaptive applications, composition, runtime linking and loading, software component architectures

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21 Safe and efficient sharing of persistent objects in Thor

B. Liskov, A. Adya, M. Castro, S. Ghemawat, R. Gruber, U. Maheshwari, A. C. Myers, M. Day, L. Shrira

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings, index terms

Thor is an object-oriented database system designed for use in a heterogeneous distributed environment. It provides highly-reliable and highly-available persistent storage for objects, and supports safe sharing of these objects by applications written in different programming languages.Safe heterogeneous sharing of long-lived objects requires encapsulation: the system must guarantee that applications interact with objects only by invoking methods. Although safety concerns are important, most obj ...

22 An optimized implementation for VML based on pattern matching and dynamic programming

Weimin Chen, Volker Turau

November 1994 **Proceedings of the third international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: 📄 pdf(930.47 KB)   Additional Information: full citation, abstract, references, index terms

In an object-oriented database system (OODBS), objects exist persistently and object I/O is transparent to the programmer. Therefore, some mechanism in the system must initiate I/O as the program runs. In this paper we present an approach based on pattern matching and dynamic programming that allows a program to interact efficiently with the runtime storage layer. We are interested in allowing programs to manipulate very large objects without necessarily reading them entirely. If a program ...

23 Virtual machine monitors: Implementing an untrusted operating system on trusted hardware

David Lie, Chandramohan A. Thekkath, Mark Horowitz

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: 📄 pdf(280.87 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recently, there has been considerable interest in providing "trusted computing platforms" using hardware~----~TCPA and Palladium being the most publicly visible examples. In this paper we discuss our experience with building such a platform using a traditional time-

sharing operating system executing on XOM~---~a processor architecture that provides copy protection and tamper-resistance functions. In XOM, only the processor is trusted; main memory and the operating system are not trusted.Our opera ...

Keywords: XOM, XOMOS, untrusted operating systems

24 Replicating memory behavior for performance prediction

Aditya Toomula, Jaspal Subhlok

October 2004 **Proceedings of the 7th workshop on Workshop on languages, compilers, and run-time support for scalable systems LCR '04**

Publisher: ACM Press

Full text available: pdf(204.96 KB)   Additional Information: full citation, abstract, references

This paper introduces a method to monitor an application and generate a short synthetic "memory skeleton" program whose memory access pattern is representative of the application. In particular, the application and its memory skeleton should have similar cache behavior on any memory hierarchy architecture. The objective is to quickly estimate the cache performance of an application on any memory architecture by running its memory skeleton. The paper presents and validates a framework for automat ...

25 The role-based access control system of a European bank: a case study and discussion

Andreas Schaad, Jonathan Moffett, Jeremy Jacob

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(201.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

Research in the area of role-based access control has made fast progress over the last few years. However, little has been done to identify and describe existing role-based access control systems within large organisations. This paper describes the access control system of a major European Bank. An overview of the systems structure, its administration and existing control principles constraining the administration is given. In addition, we provide an answer to a key question - the ratio of ...

Keywords: control principles, dual control, inheritance, least privilege, number of roles, role administration, role-based access control, separation of duties

26 Dynamic Access Control: Dynamic and risk-aware network access management

Lawrence Teo, Gail-Joon Ahn, Yuliang Zheng

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(266.74 KB)   Additional Information: full citation, abstract, references, index terms

Traditional network security technologies such as firewalls and intrusion detection systems usually work according to a static ruleset only. We believe that a better approach to network security can be achieved if we use quantified levels of risk as an input. In this paper, we describe a dynamic access control architecture which uses risk to determine whether to allow or deny access by a source connection into the network. A simulation of our architecture shows favorable and promising results.

Keywords: dynamic access control, network management, risk, risk awareness, role

27 Articles: Web Services: Promises and Compromises

Joanne Martin, Ali Arsanjani, Peri Tarr, Brent Hailpern

March 2003 **Queue**, Volume 1 Issue 1

Publisher: ACM Press
Full text available: pdf(1.98 MB) html(30.98 KB) Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

28 Evaluating Network Processors using NetBench

Gokhan Memik, William H. Mangione-Smith
May 2006 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 5 Issue 2
Publisher: ACM Press

Full text available: pdf(547.53 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The Network Processor market is one of the fastest growing segments of the microprocessor industry today. In spite of this increasing market importance, there does not exist a common framework to compare the performance of different Network Processor designs. Our primary goal in this study is to fill this gap by creating the NetBench benchmarking suite. NetBench is designed to represent Network Processor workloads. It contains 11 programs that form 18 different applications. The programs are sel ...

Keywords: Embedded systems, benchmarking, network processors

29 File server scaling with network-attached secure disks

Garth A. Gibson, David F. Nagle, Khalil Amiri, Fay W. Chang, Eugene M. Feinberg, Howard Gobioff, Chen Lee, Berend Ozceri, Erik Riedel, David Rochberg, Jim Zelenka
June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1
Publisher: ACM Press

Full text available: pdf(1.77 MB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

By providing direct data transfer between storage and client, network-attached storage devices have the potential to improve scalability for existing distributed file systems (by removing the server as a bottleneck) and bandwidth for new parallel and distributed file systems (through network striping and more efficient data paths). Together, these advantages influence a large enough fraction of the storage market to make commodity network-attached storage feasible. Realizing the technology's ful ...

30 InfiniteReality: a real-time graphics system

John S. Montrym, Daniel R. Baum, David L. Dignam, Christopher J. Migdal
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(697.27 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

31 Session 5: web system architectures: FDX: federating devices and web applications

Martin Gaedke, Johannes Meinecke, Andreas Heil
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**
Publisher: ACM Press

Full text available: pdf(658.06 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Electronic devices have been used for the support of everyday tasks in domestic and professional environments for some time now. Currently, there is a tendency towards a combined application of individual gadgets that are connected within locally confined environments via a diversity of protocols and technologies like UPnP, WLAN and

--Bluetooth. As one step further in this direction, there is the vision of devices that are globally and uniformly connected through the WWW, extending the Mobile Web ...

Keywords: architecture, device, federation, integration, service infrastructure systems, web service

32 Key management and key exchange: A temporal key management scheme for secure broadcasting of XML documents
Elisa Bertino, Barbara Carminati, Elena Ferrari
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**
Publisher: ACM Press
Full text available: pdf(242.89 KB)   Additional Information: full citation, abstract, references, index terms

Secure broadcasting of web documents is becoming a crucial need for many web-based applications. Under the broadcast document dissemination strategy a web document source periodically broad-casts (portions of) its documents to a possibly large community of subjects, without the need of explicit subject requests. By secure broadcasting we mean that the delivery of information to sub-jects must obey the access control policies of the document source. Since different subjects may have the right to ...

Keywords: XML, secure broadcasting, temporal key management

33 Configuration-Sensitive Process Scheduling for FPGA-Based Computing Platforms
G. Chen, M. Kandemir, U. Sezer
February 2004 **Proceedings of the conference on Design, automation and test in Europe - Volume 1**
Publisher: IEEE Computer Society
Full text available: pdf(159.61 KB)   Additional Information: full citation, abstract, index terms

Reconfigurable computing has become an important part of research in software systems and computer architecture. While prior research on reconfigurable computing have addressed architectural and compilation/programming aspects to some extent, there is still not much consensus on what kind of operating system (OS) support should be provided. In this paper, we focus on OS process scheduler, and demonstrate how it can be customized considering the needs of reconfigurable hardware. Our process sched ...

34 Database programming languages: a functional approach
Jurgen Annevelink
April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data SIGMOD '91**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(1.13 MB)   Additional Information: full citation, references, citings, index terms

35 Proceedings of a conference on Decision Support Systems, Santa Clara, California, January 24-26, 1977: A DSS for management of patients with a chronic illness
C. Frank Starmer, Robert A. Rosati
January 1977 **ACM SIGMIS Database**, Volume 8 Issue 3
Publisher: ACM Press
Full text available: pdf(653.93 KB)   Additional Information: full citation, abstract, references

There is uncertainty in the management of an individual with a chronic illness. The uncertainty results from lack of information about groups of similar patients. A feedback model for patient care is presented and its implementation discussed. The model requires characterization of patients at the time of entry into the health-care system, cataloging the methods of management used and assessing the response to treatments by following

the patient over long periods of time.With a computer-based da·...

36 Embedded hardware design case studies: Design flow for HW / SW acceleration
transparency in the thumbpod secure embedded system
David Hwang, Bo-Cheng Lai, Patrick Schaumont, Kazuo Sakiyama, Yi Fan, Shenglin Yang,
Alireza Hodjat, Ingrid Verbauwhede
June 2003 **Proceedings of the 40th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(250.69 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes a case study and design flow of a secure embedded system called
ThumbPod, which uses cryptographic and biometric signal processing acceleration. It
presents the concept of HW/SW acceleration transparency, a systematic method to
accelerate Java functions in both software and hardware. An example of acceleration
transparency for a Rijndael encryption function is presented. The embedded prototype
hardware platform is also described. Acceleration transparency yields software and ...

37 Proceedings - only: Smart cards: a system support for service accessibility from
heterogeneous devices
Raphaël Marvie, Marie-Claude Pellegrini, Olivier Potonniée
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European
workshop: beyond the PC: new challenges for the operating system**
Publisher: ACM Press
Full text available: pdf(119.18 KB)   Additional Information: full citation, abstract, references

With the proliferation of computers which do not resemble computers, such as mobile
phones, TV's, PDA's, end-users wish to take advantage of them to access their
applications and information, wherever they are and whatever the device used.This article
deals with a common means to access a same service from various kinds of devices, and
explains how smart cards, as mediums compatible with most types of terminals, can be
used as application bootstrap.

38 Caching: A multicast-based distributed file system for the internet
Björn Grönvall, Ian Marsh, Stephen Pink
September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European
workshop: Systems support for worldwide applications**
Publisher: ACM Press
Full text available: pdf(799.81 KB)   Additional Information: full citation, abstract, references, citings

JetFile is a file system designed with multicast as its distribution mechanism. The goal is
to support a large number of clients in an environment such as the Internet where hosts
are attached to both high and low speed networks, sometimes over long distances. JetFile
is designed for reduced reliance on servers by allowing client-to-client updates using
scalable reliable multicast. Clients on high speed networks prefetch large numbers of files.
On low speed networks such as wireless, special cac ...

39 Software evolution: Binary refactoring: improving code behind the scenes
Eli Tilevich, Yannis Smaragdakis
May 2005 **Proceedings of the 27th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(131.17 KB)   Additional Information: full citation, abstract, references, index terms

We present Binary Refactoring: a software engineering technique for improving the
implementation of programs without modifying their source code. While related to regular
refactoring in preserving a program's functionality, binary refactoring aims to capture
modifications that are often applied to source code, although they only improve the
performance of the software application and not the code structure. We motivate binary
refactoring, present a binary refactoring catalogue, describe the desi ...

Keywords: adaptation, bytecode engineering, maintenance, optimization, refactoring,

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Business Wire. New York: Mar 31, 2004. p. 1

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Managed Healthcare.Info. Mar 18, 2002. p. 16

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☐ 3. **AppGate Joins The Baltimore ISV Trusted World Partner Program**
Business Editors/High-Tech Writers. **Business Wire.** New York: Oct 2, 2000. p. 1

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M2 Presswire. Coventry: Sep 27, 2000. p. 1

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Amy K Larsen. **InformationWeek.** Manhasset: May 3, 1999. p. 99 (1 page)

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